



Report No.: FG190337E

FCC RADIO TEST REPORT

FCC ID : ZMOL860GL16L

Equipment : LTE Module

Brand Name : Fibocom Wireless Inc.

Model Name : L860-GL-16

Applicant : Fibocom Wireless Inc.

1101, Tower A, Building 6, Shenzhen

International, Innovation Valley, Dashi 1st Rd,

Nanshan, ShenZhen, China

Manufacturer : LCFC (HeFei) Electronics Technology Co., Ltd.

No. 3188-1, Yungu Road (Hefei Export Processing Zone), Hefei Economics &

Technology Development Area, Anhui, CHINA

Standard : FCC 47 CFR Part 2, and 90(S)

Equipment: Fibocom L860-GL-16 tested inside of Lenovo Notebook Computer.

The product was received on Sep. 03, 2021 and testing was started from Sep. 20, 2021 and completed on Sep. 28, 2021. We, Sporton International Inc. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA-603-E and has been in compliance with the applicable technical standards.

The test results in this partial report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Approved by: Louis Wu

Louis Win

Sporton International Inc. EMC & Wireless Communications Laboratory

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E-mail: Alex@sporton.com.tw Report Version : 01

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History of this test report

Report No. : FG190337E

| Report No. | Version | Description | Issued Date |
|------------|---------|-------------------------|---------------|
| FG190337E | 01 | Initial issue of report | Oct. 22, 2021 |
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Summary of Test Result

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| Report Clause | Ref Std. Clause | Test Items | Result (PASS/FAIL) | Remark |
|------------------|--------------------|---|-----------------------|--|
| 3.2 | §2.1046 §90.635 | Conducted Output Power and Effective Radiated Power | Pass | - |
| - | - | Peak-to-Average Ratio | - | See Note |
| - | §2.1049 §90.209 | Occupied Bandwidth and 26dB Bandwidth | - | See Note |
| - | §2.1051 §90.691 | Emission masks – In-band emissions | - | See Note |
| - | §2.1051 §90.691 | Emission masks – Out of band emissions | - | See Note |
| - | §2.1055 §90.213 | Frequency Stability for Temperature & Voltage | - | See Note |
| 3.3 | §2.1053 §90.691 | Field Strength of Spurious Radiation | Pass | Under limit 36.83 dB at 2443.000 MHz |

Note:

- The module (Model: L860-GL-16) makes no difference after verifying output power, this report reuses test data from the module report.
- Conducted power was verified to be consistent with the original modular approval, so the output power level in the original modular grant is referenced in this report for determining ERP of this host product.

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Sheng Kuo Report Producer: Amy Chen

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1 General Description

1.1 Feature of Equipment Under Test

| Product Feature | | | | | |
|---------------------------------|-----------------------|--|--|--|--|
| Equipment | LTE Module | | | | |
| Brand Name | Fibocom Wireless Inc. | | | | |
| Model Name | L860-GL-16 | | | | |
| FCC ID | ZMOL860GL16L | | | | |
| Sample 1 | EUT with Host 1 | | | | |
| Sample 2 | EUT with Host 2 | | | | |
| EUT supports Radios application | WCDMA/HSPA/LTE/GNSS | | | | |
| EUT Stage | Production Unit | | | | |

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Remark:

- 1. The above EUT's information was declared by manufacturer.
- 2. Equipment: Fibocom L860-GL-16 tested inside of Lenovo Notebook Computer.

The product was installed into Notebook Computer (Brand Name: Lenovo, Model Name: TP00128B) during test, and the host information was recorded in the following table.

| | Host Information |
|--------|----------------------------|
| Host 1 | Host with Amphenol Antenna |
| Host 2 | Host with JYT/NVC Antenna |

| WWAN Antenna Information | | | | | | |
|--------------------------|--------------|-----------------|-----------------|-------|--|--|
| Main Antonno | Manufacturer | Amphenol | Peak gain (dBi) | -0.43 | | |
| Main Antenna | Part number | TKC114-16-000-C | Туре | PIFA | | |
| Main Antonia | Manufacturer | JYT/NVC | Peak gain (dBi) | -2.02 | | |
| Main Antenna | Part number | JYAAE0154HR | Туре | PIFA | | |

Remark:

- 1. The above EUT's information was declared by manufacturer. Please refer to Comments and Explanations in report summary.
- 2. All test items were performed with "Amphenol Antenna" as representative.

1.2 Product Specification of Equipment Under Test

| Product Specification subjective to this standard | | | | | |
|---|--------------------------------------|--|--|--|--|
| Tx Frequency | 814.7 ~ 823.3 MHz | | | | |
| Rx Frequency | 859.7 ~ 868.3 MHz | | | | |
| Bandwidth | 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz | | | | |
| Maximum Output Power to Antenna | 22.93 dBm | | | | |
| Type of Modulation | QPSK / 16QAM / 64QAM | | | | |

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1.3 Modification of EUT

No modifications are made to the EUT during all test items.

1.4 Testing Site

| Test Site | Sporton International Inc. EMC & Wireless Communications Laboratory |
|--------------------|---|
| Test Site Location | No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan |
| Test Site No. | Sporton Site No. |
| Test Site No. | TH03-HY |
| Test Engineer | Benjamin Lin |
| Temperature | 23.5~25.2℃ |
| Relative Humidity | 49.4~52.3% |

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| Test Site | Sporton International Inc. Wensan Laboratory | | | | | |
|--------------------|---|--|--|--|--|--|
| Test Site Location | No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Faoyuan City 333010, Taiwan | | | | | |
| Test Site No. | Sporton Site No. | | | | | |
| rest site No. | 03CH12-HY (TAF Code: 3786) | | | | | |
| Test Engineer | Jack Cheng, Lance Chiang, and Chuan Chu | | | | | |
| Temperature | 21.6~26.2°ℂ | | | | | |
| Relative Humidity | 56~68% | | | | | |
| Remark | The Radiated Spurious Emission test item subcontracted to Sporton International Inc. Wensan Laboratory. | | | | | |

Note: The test site complies with ANSI C63.4 2014 requirement.

FCC Designation No.: TW1190 and TW3786

1.5 Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC 47 CFR Part 2, 90
- ANSI / TIA-603-E
- ANSI C63.26-2015
- FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- FCC KDB 412172 D01 Determining ERP and EIRP v01r01
- FCC KDB 414788 D01 Radiated Test Site v01r01
- Interim Guidance for Equipment Authorization of Devices with Channel Bandwidths Combined Across Two Contiguous Service Rule Allocations OET/Lab/EACB, June 6, 2013

Remark:

- All test items were verified and recorded according to the standards and without any deviation during the test.
- The TAF code is not including all the FCC KDB listed without accreditation.

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2 **Test Configuration of Equipment Under Test**

Test Mode 2.1

During all testing, EUT is in link mode with base station emulator at maximum power level.

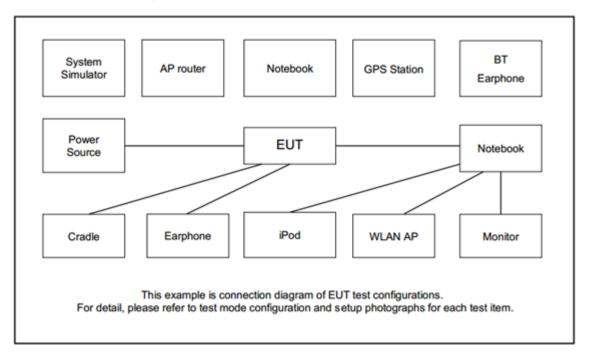
The measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in Tablet Type (three orthogonal axis (X: flat, Y: portrait, Z: landscape)) and Notebook Type, adjusting the measurement antenna orientation, following C63.26 exploratory test procedures and find Y plane with accessory as worst plane.

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Frequency range investigated for radiated emission is 30 MHz to 9000 MHz.

| Conducted | Dand | | Ва | ndwid | lth (M | łz) | | N | /lodulatio | n | | RB# | | Tes | t Chai | nnel |
|-------------------------------|----------------------|--------------------------------------|---|---|--|--|---|---------------------|---------------------------------------|----------|---|------|------|------|--------|------|
| Test Cases | Band | 1.4 | 3 | 5 | 10 | 15 | 20 | QPSK | 16QAM | 64QAM | 1 | Half | Full | L | М | Н |
| Max. Output Power | 26 | V | ٧ | V | v | v | 1 | v | v | v | ٧ | v | v | ٧ | v | v |
| E.R.P. | 26 | ٧ | ٧ | V | v | v | • | v | v | v | | | Мах. | Powe | r | |
| Radiated Spurious Emission | 26 | | | V | v | v | - | v | | | v | | | V | v | v |
| Remark | 2. Th 3. LT EI | ne mari E Ban RP ove equenc | k "-" me d26 tra r 15MH y spec | eans th nsmit f Iz band trum w | nat this frequer dwidth hich fa | bandw ncy for compli lls with | ridth is part22 es the in part | not supporule is 82 | 24MHz-84 t line of pa complies. | 9MHz, fo | • | | | | | ИHz. |

2.2 Connection Diagram of Test System



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2.3 Support Unit used in test configuration and system

| Item | Equipment | guipment Brand Name Mo | | FCC ID | Data Cable | Power Cord |
|------|------------------|------------------------|-------|--------------|-------------------|-------------------|
| 1. | System Simulator | Anritsu | 8821C | N/A | N/A | Unshielded, 1.8 m |
| 2. | iPod Earphone | Apple | N/A | Verification | Unshielded, 1.0 m | N/A |

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2.4 Frequency List of Low/Middle/High Channels

| LTE Band 26 Channel and Frequency List | | | | | | | | |
|--|------------------------|--------|--------|---------|--|--|--|--|
| BW [MHz] | Channel/Frequency(MHz) | Lowest | Middle | Highest | | | | |
| 45 | Channel | 26765 | - | - | | | | |
| 15 | Frequency | 821.5 | - | - | | | | |
| 10 | Channel | - | 26740 | - | | | | |
| 10 | Frequency | - | 819 | - | | | | |
| 5 | Channel | 26715 | 26740 | 26765 | | | | |
| o O | Frequency | 816.5 | 819 | 821.5 | | | | |
| 2 | Channel | 26705 | 26740 | 26775 | | | | |
| 3 | Frequency | 815.5 | 819 | 822.5 | | | | |
| 1.4 | Channel | 26697 | 26740 | 26783 | | | | |
| 1.4 | Frequency | 814.7 | 819 | 823.3 | | | | |

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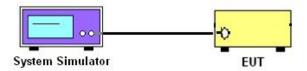
3 Conducted Test Items

3.1 Measuring Instruments

See list of measuring instruments of this test report.

3.1.1 Test Setup

3.1.2 Conducted Output Power



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3.1.3 Test Result of Conducted Test

Please refer to Appendix A.

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3.2 Conducted Output Power Measurement and ERP Measurement

3.2.1 Description of the Conducted Output Power Measurement and ERP Measurement

A system simulator was used to establish communication with the EUT. Its parameters were set to enforce EUT transmitting at the maximum power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

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The conducted power of mobile transmitters must not exceed 100 Watts for LTE Band 26.

According to KDB 412172 D01 Power Approach,

 $EIRP = P_T + G_T - L_C$, where

 P_T = transmitter output power in dBm

 G_T = gain of the transmitting antenna in dBi

L_C = signal attenuation in the connecting cable between the transmitter and antenna in dB

3.2.2 Test Procedures

- 1. The transmitter output port was connected to the system simulator.
- 2. Set EUT at maximum power through system simulator.
- 3. Select lowest, middle, and highest channels for each band and different modulation.
- 4. Measure and record the power level from the system simulator.

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3.3 Field Strength of Spurious Radiation Measurement

3.3.1 Description of Field Strength of Spurious Radiated Measurement

The radiated spurious emission was measured by substitution method according to ANSI / TIA-603-E. The power of any emission FCC Part 90.691 on any frequency removed from the assigned frequency by more than 250 percent of the authorized bandwidth at least 43 + 10 log (P) dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

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The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least 43+10log₁₀(P[Watts]) dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

3.3.2 Test Procedures

- The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
- 2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
- 3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
- 4. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
- 5. For testing below 1GHz, make the measurement with the spectrum analyzer's RBW = 100 kHz, VBW = 3MHz, Sweep = 500ms, Taking the record of maximum spurious emission.
- 6. For testing above 1GHz, make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, Sweep = 500ms, Taking the record of maximum spurious emission.
- 7. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
- Tune the output power of signal generator to the same emission level with EUT maximum 8. spurious emission.
- 9. Taking the record of output power at antenna port.

Repeat step 7 to step 8 for another polarization.

EIRP (dBm) = S.G. Power – Tx Cable Loss + Tx Antenna Gain

ERP (dBm) = EIRP - 2.15

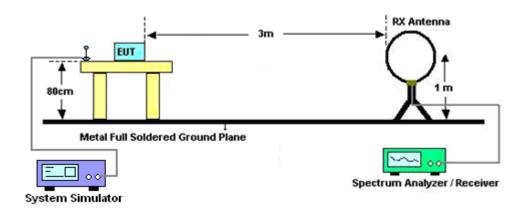
- 10. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 11. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)

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3.3.3 Test Setup

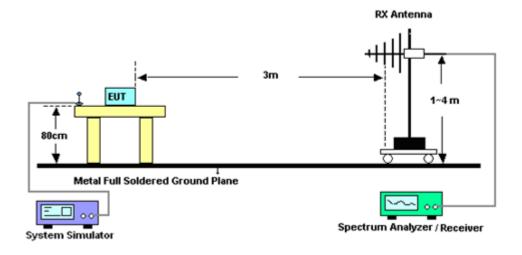
For radiated test below 30MHz



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For radiated test from 30MHz to 1GHz

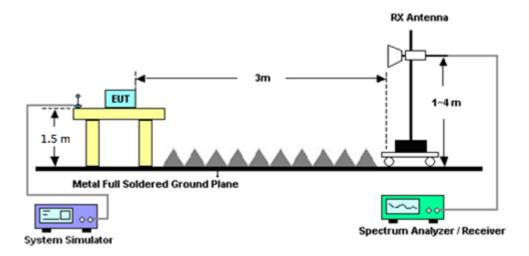
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For radiated test above 1GHz



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3.3.4 Test Result of Field Strength of Spurious Radiated

Please refer to Appendix B.

Note:

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

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List of Measuring Equipment 4

| Instrument | Brand Name | Model No. | Serial No. | Characteristics | Calibration Date | Test Date | Due Date | Remark |
|---------------------------|-------------------------------|-------------------------------------|---------------------|-------------------------------|---------------------|---------------------------------|---------------|--------------------------|
| Loop Antenna | Rohde & Schwarz | HFH2-Z2 | 100315 | 9 kHz~30 MHz | Jan. 04, 2021 | Sep. 20, 2021~ Sep. 28, 2021 | Jan. 03, 2022 | Radiation (03CH12-HY) |
| Bilog Antenna | TESEQ | CBL 6111D & 00800N1D01 N-06 | 37059 & 01 | 30MHz~1GHz | Oct. 11, 2020 | Sep. 20, 2021~ Sep. 28, 2021 | Oct. 10, 2021 | Radiation (03CH12-HY) |
| Bilog Antenna | TESEQ | CBL 6111D & N-6-06 | 35414 & AT-N0602 | 30MHz~1GHz | Oct. 11, 2020 | Sep. 20, 2021~ Sep. 28, 2021 | Oct. 10, 2021 | Radiation (03CH12-HY) |
| Horn Antenna | SCHWARZBE CK | BBHA 9120 D | 9120D-1328 | 1GHz~18GHz | Nov. 23, 2020 | Sep. 20, 2021~ Sep. 28, 2021 | Nov. 22, 2021 | Radiation (03CH12-HY) |
| Horn Antenna | SCHWARZBE CK | BBHA 9120 D | 9120D-1212 | 1GHz~18GHz | May 18, 2021 | Sep. 20, 2021~ Sep. 28, 2021 | May 17, 2022 | Radiation (03CH12-HY) |
| Preamplifier | COM-POWER | PA-103 | 161075 | 10MHz~1GHz | Mar. 24, 2021 | Sep. 20, 2021~ Sep. 28, 2021 | Mar. 23, 2022 | Radiation (03CH12-HY) |
| Preamplifier | Aglient | 8449B | 3008A02375 | 1GHz~26.5GHz | May 25, 2021 | Sep. 20, 2021~ Sep. 28, 2021 | May 24, 2022 | Radiation (03CH12-HY) |
| Preamplifier | E-INSTRUME NT TECH LTD. | ERA-100M-1 8G-56-01-A7 0 | EC1900249 | 1GHz~18GHz | Dec. 05, 2020 | Sep. 20, 2021~ Sep. 28, 2021 | Dec. 04, 2021 | Radiation (03CH12-HY) |
| Spectrum Analyzer | Agilent | N9010A | MY53470118 | 10Hz~44GHz | Jan. 15, 2021 | Sep. 20, 2021~ Sep. 28, 2021 | Jan. 14, 2022 | Radiation (03CH12-HY) |
| Signal Generator | Rohde & Schwarz | SMB100A | 101107 | 100kHz~40GHz | Dec. 04, 2020 | Sep. 20, 2021~ Sep. 28, 2021 | Dec. 03, 2021 | Radiation (03CH12-HY) |
| RF Cable | HUBER + SUHNER | SUCOFLEX 126E | 0058/126E | 30MHz~18GHz | Dec. 11, 2020 | Sep. 20, 2021~ Sep. 28, 2021 | Dec. 10, 2021 | Radiation (03CH12-HY) |
| RF Cable | HUBER + SUHNER | SUCOFLEX 102 | 505134/2 | 30MHz~40GHz | Feb. 22, 2021 | Sep. 20, 2021~ Sep. 28, 2021 | Feb. 21, 2022 | Radiation (03CH12-HY) |
| RF Cable | HUBER + SUHNER | SUCOFLEX 102 | 800740/2 | 30MHz~40GHz | Feb. 22, 2021 | Sep. 20, 2021~ Sep. 28, 2021 | Feb. 21, 2022 | Radiation (03CH12-HY) |
| Filter | Wainwright | WLKS1200-1 2SS | SN2 | 1.2GHz Low Pass Filter | Mar. 17, 2021 | Sep. 20, 2021~ Sep. 28, 2021 | Mar. 16, 2022 | Radiation (03CH12-HY) |
| Filter | Wainwright | WHKX12-108 0-1200-1500 0-60SS | SN1 | 1.2GHz High Pass Filter | Mar. 17, 2021 | Sep. 20, 2021~ Sep. 28, 2021 | Mar. 16, 2022 | Radiation (03CH12-HY) |
| Filter | Wainwright | WHKX12-270 0-3000-1800 0-60ST | SN2 | 3GHz High Pass Filter | Jul. 12, 2021 | Sep. 20, 2021~ Sep. 28, 2021 | Jul. 11, 2022 | Radiation (03CH12-HY) |
| Hygrometer | TECPEL | DTM-303B | TP140349 | N/A | Oct. 02, 2020 | Sep. 20, 2021~ Sep. 28, 2021 | Oct. 01, 2021 | Radiation (03CH12-HY) |
| Controller | EMEC | EM1000 | N/A | Control Turn table & Ant Mast | N/A | Sep. 20, 2021~ Sep. 28, 2021 | N/A | Radiation (03CH12-HY) |
| Antenna Mast | EMEC | AM-BS-4500- B | N/A | 1m~4m | N/A | Sep. 20, 2021~ Sep. 28, 2021 | N/A | Radiation (03CH12-HY) |
| Turn Table | EMEC | TT2000 | N/A | 0~360 Degree | N/A | Sep. 20, 2021~ Sep. 28, 2021 | N/A | Radiation (03CH12-HY) |
| Software | Audix | E3 6.2009-8-24 | RK-000989 | N/A | N/A | Sep. 20, 2021~ Sep. 28, 2021 | N/A | Radiation (03CH12-HY) |
| Base Station (Measure) | Anritsu | MT8821C | 6262025341 | N/A | Oct. 06, 2020 | Sep. 20, 2021 | Oct. 05, 2021 | Conducted (TH03-HY) |

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Uncertainty of Evaluation 5

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

| Measuring Uncertainty for a Level of | 3 40 AB |
|--------------------------------------|---------|
| Confidence of 95% (U = 2Uc(y)) | 3.10 dB |

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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

| Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y)) | 3.39 dB |
|---|---------|
|---|---------|

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Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power & ERP)

| | LTE Band 26 Maximum Average Power [dBm] (GT - LC = -0.43 dB) | | | | | | | | | | |
|----------|--|-----------|--------|--------|--------|---------|-----------|---------|--|--|--|
| BW [MHz] | RB Size | RB Offset | Mod | Lowest | Middle | Highest | ERP (dBm) | ERP (W) | | | |
| 15 | 1 | 0 | | 22.92 | - | • | | 0.1081 | | | |
| 15 | 1 | 74 | QPSK | 22.69 | - | - | 20.34 | | | | |
| 15 | 75 | 0 | | 21.63 | - | - | | | | | |
| 15 | 1 | 0 | 16-QAM | 21.96 | - | • | 19.38 | 0.0867 | | | |
| 15 | 1 | 0 | 64-QAM | 20.68 | - | - | 18.10 | 0.0646 | | | |
| Limit | Limit Conducted power < 100W | | | | Result | Pass | | | | | |

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| | LTE Band 26 Maximum Average Power [dBm] (GT - LC = -0.43 dB) | | | | | | | | | | |
|------------------------------|--|--|--------|--------|-------|---|-------|--------|--|--|--|
| BW [MHz] | RB Size | Size RB Offset Mod Lowest Middle Highest ERP (dBm) ERP (W) | | | | | | | | | |
| 10 | 1 | 0 | QPSK | ı | 22.93 | - | 20.35 | 0.1084 | | | |
| 10 | 1 | 0 | 16-QAM | - | 21.72 | - | 19.14 | 0.0820 | | | |
| 10 | 1 | 0 | 64-QAM | - | 20.89 | - | 18.31 | 0.0678 | | | |
| Limit Conducted power < 100W | | | | Result | Pass | | | | | | |

| | LTE Band 26 Maximum Average Power [dBm] (GT - LC = -0.43 dB) | | | | | | | | | |
|----------|--|-----------|--------|-------------------------------------|-------|-------|-------|--------|--|--|
| BW [MHz] | RB Size | RB Offset | Mod | Mod Lowest Middle Highest ERP (dBm) | | | | | | |
| 5 | 1 | 0 | QPSK | 22.63 | 22.89 | 22.89 | 20.31 | 0.1074 | | |
| 5 | 1 | 0 | 16-QAM | 21.86 | 22.36 | 21.85 | 19.78 | 0.0951 | | |
| 5 | 1 | 0 | 64-QAM | 20.96 | 20.72 | 21.23 | 18.65 | 0.0733 | | |
| Limit | Limit Conducted power < 100W | | | Result | | | Pass | | | |

| | LTE Band 26 Maximum Average Power [dBm] (GT - LC = -0.43 dB) | | | | | | | | | | |
|----------|--|-----------|--------|-------------------------------------|-------|-------|-------|--------|--|--|--|
| BW [MHz] | RB Size | RB Offset | Mod | Mod Lowest Middle Highest ERP (dBm) | | | | | | | |
| 3 | 1 | 0 | QPSK | 22.63 | 22.86 | 22.92 | 20.34 | 0.1081 | | | |
| 3 | 1 | 0 | 16-QAM | 21.72 | 22.58 | 21.68 | 20.00 | 0.1000 | | | |
| 3 | 1 | 0 | 64-QAM | 20.78 | 21.63 | 20.69 | 19.05 | 0.0804 | | | |
| Limit | nit Conducted power < 100W | | | Result | | | Pass | | | | |

| | LTE Band 26 Maximum Average Power [dBm] (GT - LC = -0.43 dB) | | | | | | | | | |
|----------|--|-----------|--------|---|-------|-------|-------|--------|--|--|
| BW [MHz] | RB Size | RB Offset | Mod | Mod Lowest Middle Highest ERP (dBm) ERI | | | | | | |
| 1.4 | 1 | 0 | QPSK | 22.69 | 22.21 | 22.85 | 20.27 | 0.1064 | | |
| 1.4 | 1 | 0 | 16-QAM | 21.85 | 22.36 | 22.18 | 19.78 | 0.0951 | | |
| 1.4 | 1 | 0 | 64-QAM | 20.69 | 21.21 | 21.25 | 18.67 | 0.0736 | | |
| Limit | Conducted power < 100W | | | Result | | | Pass | | | |

Appendix B. Test Results of Radiated Test

LTE Band 26

Report No.: FG190337E

| | | | L | TE Band 26 | / 5MHz / QP | SK | | | |
|---------|----------------------|--------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Over Limit (dB) | SPA Reading (dBm) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) |
| | 1629 | -54.48 | -13 | -41.48 | -64.08 | -60.01 | 0.91 | 8.59 | Н |
| | 2443 | -52.21 | -13 | -39.21 | -66.14 | -59.54 | 1.14 | 10.62 | Н |
| | 3257 | -54.34 | -13 | -41.34 | -70.48 | -62.79 | 1.32 | 11.92 | Н |
| Lawast | | | | | | | | | Н |
| Lowest | 1629 | -55.70 | -13 | -42.70 | -64.84 | -61.23 | 0.91 | 8.59 | V |
| | 2443 | -49.83 | -13 | -36.83 | -63.83 | -57.16 | 1.14 | 10.62 | V |
| | 3257 | -54.32 | -13 | -41.32 | -70.95 | -62.77 | 1.32 | 11.92 | V |
| | | | | | | | | | V |
| | 1634 | -55.47 | -13 | -42.47 | -65.09 | -61.01 | 0.92 | 8.61 | Н |
| | 2451 | -50.07 | -13 | -37.07 | -64.02 | -57.41 | 1.14 | 10.63 | Н |
| | 3267 | -54.89 | -13 | -41.89 | -71.01 | -63.36 | 1.32 | 11.94 | Н |
| | | | | | | | | | Н |
| Middle | 1634 | -55.67 | -13 | -42.67 | -64.81 | -61.21 | 0.92 | 8.61 | V |
| | 2451 | -50.31 | -13 | -37.31 | -64.35 | -57.65 | 1.14 | 10.63 | V |
| | 3267 | -54.11 | -13 | -41.11 | -70.71 | -62.58 | 1.32 | 11.94 | V |
| | | | | | | | | | V |
| | 1639 | -53.34 | -13 | -40.34 | -62.96 | -58.90 | 0.92 | 8.63 | Н |
| | 2458 | -51.09 | -13 | -38.09 | -65.03 | -58.44 | 1.14 | 10.64 | Н |
| | 3277 | -54.68 | -13 | -41.68 | -70.78 | -63.17 | 1.32 | 11.96 | Н |
| 112.1 | | | | | | | | | Н |
| Highest | 1639 | -54.45 | -13 | -41.45 | -63.57 | -60.01 | 0.92 | 8.63 | V |
| | 2458 | -50.33 | -13 | -37.33 | -64.38 | -57.68 | 1.14 | 10.64 | V |
| | 3277 | -54.13 | -13 | -41.13 | -70.71 | -62.62 | 1.32 | 11.96 | V |
| | | | | | | | | | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

TEL: 0800-800005 Page Number : B1 of B2

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| | LTE Band 26 / 10MHz / QPSK | | | | | | | | | | |
|--------------|----------------------------|--------------|------------------|-------------------------|-------------------------|--------------------------|----------------------|-----------------------------|-----------------------|--|--|
| Channel | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Over Limit (dB) | SPA Reading (dBm) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) | | |
| | 1632 | -57.23 | -13 | -44.23 | -66.83 | -62.77 | 0.91 | 8.60 | Н | | |
| | 2443 | -50.12 | -13 | -37.12 | -64.05 | -57.45 | 1.14 | 10.62 | Н | | |
| | 3256 | -54.68 | -13 | -41.68 | -70.82 | -63.13 | 1.32 | 11.91 | Н | | |
| NA: -I -II - | | | | | | | | | Н | | |
| Middle | 1632 | -57.64 | -13 | -44.64 | -66.77 | -63.18 | 0.91 | 8.60 | V | | |
| | 2443 | -51.06 | -13 | -38.06 | -65.06 | -58.39 | 1.14 | 10.62 | V | | |
| | 3256 | -53.83 | -13 | -40.83 | -70.46 | -62.28 | 1.32 | 11.91 | V | | |
| | | | | | | | | | V | | |

Report No.: FG190337E

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| | | | Ľ | TE Band 26 | / 15MHz / QF | PSK | | | |
|---------|----------------------|--------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Over Limit (dB) | SPA Reading (dBm) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) |
| | 1632 | -57.80 | -13 | -44.80 | -67.4 | -63.34 | 0.91 | 8.60 | Н |
| | 2448 | -51.15 | -13 | -38.15 | -65.09 | -58.49 | 1.14 | 10.63 | Н |
| | 3256 | -55.01 | -13 | -42.01 | -71.15 | -63.46 | 1.32 | 11.91 | Н |
| Laurant | | | | | | | | | Н |
| Lowest | 1632 | -58.58 | -13 | -45.58 | -67.71 | -64.12 | 0.91 | 8.60 | V |
| | 2448 | -51.04 | -13 | -38.04 | -65.07 | -58.38 | 1.14 | 10.63 | V |
| | 3256 | -54.18 | -13 | -41.18 | -70.81 | -62.63 | 1.32 | 11.91 | V |
| | | | | | | | | | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

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